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1 XML stream processing using tree-edit distance embeddings

◆ Minos Garofalakis, Amit Kumar
March 2005   ACM Transactions on Database Systems (TODS),   Volume 30 Issue 1

Publisher: ACM

Full text available: 📄 pdf(726.56 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 209,   Citation Count: 3

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

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2 Data Sonification for Users with Visual Impairment: A Case Study with Georeferenced Data

Haixia Zhao, Catherine Plaisant, Ben Shneiderman, Jonathan Lazar
May 2008   ACM Transactions on Computer-Human Interaction (TOCHI), Volume 15 Issue 1
Publisher: ACM

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 100, Downloads (12 Months): 100, Citation Count: 0

We describe the development and evaluation of a tool, iSonic, to assist users with visual impairment in exploring georeferenced data using coordinated maps and tables, augmented with nontextual sounds and speech output. Our in-depth case studies with ...

Keywords: Interactive sonification, auditory user interfaces, information seeking, universal usability, users with visual impairment

3 Theory of keyblock-based image retrieval

Lei Zhu, Al Bing Rao, Aldong Zhang
April 2002   ACM Transactions on Information Systems (TOIS), Volume 20 Issue 2
Publisher: ACM

Full text available: pdf(2.14 MB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 163, Citation Count: 5

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

4 Hash-based IP traceback

Alex C. Snoeren
August 2001   SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(179.03 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 163, Citation Count: 69

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...

5   Hash-based IP traceback

Alex C. Snoeren
October   ACM SIGCOMM Computer Communication Review,   Volume 31 Issue 4
2001
Publisher: ACM

Full text available: pdf(179.03 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 163,   Citation Count: 69

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...

6   Cache-oblivious string B-trees

Michael A. Bender, Martin Farach-Colton, Bradley C. Kuszmaul
June   PODS '06: Proceedings of the twenty-fifth ACM SIGMOD-SIGACT-SIGART
2006   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(154.30 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22,   Downloads (12 Months): 172,   Citation Count: 4

B-trees are the data structure of choice for maintaining searchable data on disk. However, B-trees perform suboptimally

- when keys are long or of variable length,
- when keys are compressed, even when using *front compression*, the ...

Keywords: cache oblivious string B-tree, locality preserving front compression, packed-memory array, range query, rebalance

7 Shape intrinsic fingerprints for free-form object matching

K. H. Ko, T. Maekawa, N. M. Patrikalakis, H. Masuda, F.-E. Wolter

June 2003   SM '03: Proceedings of the eighth ACM symposium on Solid modeling and applications

Publisher: ACM

Full text available: pdf(687.06 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 56,   Citation Count: 1

This paper presents matching and similarity evaluation methods between two NURBS surfaces, and their application to copyright protection of digital data representing solids or NURBS surfaces. Two methods are employed to match objects: the moment and ...

Keywords: NURBS, fingerprints, localization, matching, partial matching, registration, similarity, umbilics

8 Communications of the ACM: Volume 51 Issue 6

June 2008   issue   Volume 51 Issue 6

Publisher: ACM

Full text available: pdf(8.89 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 284,   Downloads (12 Months): 284,   Citation Count: 0

9 Communications of the ACM: Volume 51 Issue 2

February 2008   issue   Volume 51 Issue 2

Publisher: ACM

Full text available: pdf(3.89 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 549,   Downloads (12 Months): 1641,   Citation Count: 0

10 Communications of the ACM: Volume 51 Issue 3

March   issue   Volume 51 Issue 3
2008
Publisher: ACM
Full text available: pdf(7.56 MB) digital
edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 98,   Downloads (12 Months): 483,   Citation Count: 0

11 Communications of the ACM: Volume 51 Issue 5

May   issue   Volume 51 Issue 5
2008
Publisher: ACM
Full text available: pdf(7.28 MB) digital
edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 355,   Downloads (12 Months): 355,   Citation Count: 0

12 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM
Full text available: pdf(20.64
MB)   Additional Information: full citation, cited by

Bibliometrics: Downloads (6 Weeks): 274,   Downloads (12 Months): 1618,   Citation Count: 2

13 An open-source CVE for programming education: a case study

Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks
July   SIGGRAPH '05: ACM SIGGRAPH 2005 Courses
2005
Publisher: ACM
Full text available: pdf(7.92
MB)   Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 460,   Citation Count: 0

14 Communications of the ACM: Volume 51 Issue 4

April   issue   Volume 51 Issue 4
2008
Publisher: ACM
Full text available: pdf(4.24 MB) digital
edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 698, Downloads (12 Months): 1236, Citation Count: 0

15 Bioinformatics—an introduction for computer scientists

Jacques Cohen
June   ACM Computing Surveys (CSUR), Volume 36 Issue 2
2004
Publisher: ACM
Full text available: pdf(261.56   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 178, Downloads (12 Months): 1364, Citation Count: 6

The article aims to introduce computer scientists to the new field of bioinformatics.
This area has arisen from the needs of biologists to utilize and help interpret the vast
amounts of data that are constantly being gathered in genomic research---and ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell
simulation and modeling, computer, dynamic programming, hidden-Markov-models,
microarray, parsing biological sequences, phylogenetic trees

16 Projectors: advanced graphics and vision techniques

Ramesh Raskar
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM
Full text available: pdf(6.53
MB)   Additional Information: full citation, cited by

Bibliometrics: Downloads (6 Weeks): 121, Downloads (12 Months): 691, Citation Count: 1

17 Extracting usability information from user interface events

David M. Hilbert, David F. Redmiles
December   ACM Computing Surveys (CSUR),   Volume 32 Issue 4
2000
Publisher: ACM

Full text available: pdf(1.50   Additional Information: full citation, abstract, references, cited by, index
MB)   terms, review

Bibliometrics: Downloads (6 Weeks): 128,   Downloads (12 Months): 858,   Citation Count: 24

Modern window-based user interface systems generate user interface events as
natural products of their normal operation. Because such events can be automatically
captured and because they indicate user behavior with respect to an application's
user interface, ...

Keywords: human-computer interaction, sequential data analysis, usability testing,
user interface event monitoring

18 ACM SIGGRAPH Computer Graphics: Volume 37 Issue 2

May   issue   Volume 37 Issue 2
2003
Publisher: ACM

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

19 Unsupervised models for morpheme segmentation and morphology learning

Mathias Creutz, Krista Lagus
January   ACM Transactions on Speech and Language Processing (TSLP),
2007   Volume 4 Issue 1
Publisher: ACM

Full text available: pdf(441.10
KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 63,   Downloads (12 Months): 364,   Citation Count: 0

We present a model family called Morfessor for the unsupervised induction of a
simple morphology from raw text data. The model is formulated in a probabilistic
maximum a posteriori framework. Morfessor can handle highly inflecting and
compounding languages ...

Keywords: Efficient storage, highly inflecting and compounding languages, language
independent methods, maximum a posteriori (MAP) estimation, morpheme lexicon
and segmentation, unsupervised learning

20 Abstracting dependencies between software configuration items

Carl A. Gunter
January   ACM Transactions on Software Engineering and Methodology
2000   (TOSEM),   Volume 9 Issue 1
Publisher: ACM

Full text available: pdf(271.64   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 81,   Citation Count: 2

This article studies an abstract model of dependencies between software
configuration items based on a theory of concurrent computation over a class of Petri
nets called production nets. A general theory of build optimizations and their ...

Keywords: Petri nets, abstract interpretation, mathematical models of build
dependencies, software configuration management

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